

CRANK GEAR FOR A RECIPROCATING COMPRESSOR

Abstract

Crank gear (10) for a reciprocating compressor of the
10 type equipped with at least one module which has two
lines with two opposite cylinders.

The crank gear is suitable for constraining the two cyl-
inders to a crankshaft (20), so as to align the two cyl-
inders, opposite each other with respect to an axis (21)
15 of the shaft (20).

The crank gear (10) is equipped with two rods (35), a se-
ries of connecting rods (30) and two cross heads (40) and
(50).

The series of identical connecting rods (30) is symmetri-
20 cally positioned with respect to the alignment axis (25)
of the two cylinders and furthermore the overall bary-
centre of the series of connecting rods lies on the axis
(25) and on the axis (21) of the shaft (20) so that the
whole of the shaft (20) is both statically and dynami-
25 cally balanced.